Source Water Assessment Report



Public Water Supply: DODGE CITY, CITY OF

Assessment Areas Include: 388, 389, 390, 391, 392, 393, 394, 2025



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Reports were generated with the Automated Source Water Assessment Tool (ASWAT). Assessments were completed online using ASWAT by hundreds of state employees, public water supply staff, and technical assistant providers throughout the State of Kansas.

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Report Description

Detailed Explanation of Entire Report:

The 1996 amendments to the Safe Drinking Water Act require each state to develop a Source Water Assessment Program (SWAP) and a Source Water Assessment (SWA) for each Public Water Supply (PWS) that treats and distributes raw source water. In Kansas there are 761 public water supplies that require SWAs. A SWA includes a delineation of the source water assessment area, an inventory of potential contaminant sources, and a susceptibility analysis.

A PWS can consist of one or more individual assessment areas that require different assessments. In general, an assessment area is delineated at a two-mile fixed radius for a groundwater well. A surface water intake assessment area is the upstream-drainage area (watershed), inside the state border. Additionally, an assessment area can consist of an individual well, group of wells, an individual surface water intake, or multiple surface water intakes.

After each assessment is completed a report is automatically generated using an Internet-based application called the Automated Source Water Assessment Tool (ASWAT). The individual assessment reports combine to form the entire SWA report for a PWS.

A map of each Assessment Area was also generated with ASWAT. However, for security reasons the maps are not included in this report. To obtain a copy of the map(s), please contact your local PWS.

All PWS reports will be available for viewing and downloading on KDHE's Watershed Management Section website(http://www.kdhe.state.ks.us/nps) in 2004.

DODGE CITY, CITY OF Summary:

AA	Туре	Diversion Id
388	Ground water multiple wells	015, 005, 006, 003, 009, 012, 004, 008, 014, 001
389	Ground water single well	018
390	Ground water single well	007
391	Ground water multiple wells	017, 010
392	Ground water single well	013
393	Ground water single well	016

394	Ground water single well	011
2025	Ground water single well	020

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 388

Diversion Id's: 015, 005, 006, 003, 009, 012, 004, 008, 014, 001

Status: **Accepted**

Submit Date: 2003–05–07 16:06:42

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 388

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	66	63	64	64	62	67
SLS Range	Mid	Mid	Mid	Mid	Mid	Mid

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

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Status: **Accepted**

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Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 388

Source No.	SIC Description	SIC ID	Zone
213352	Cattle Farm	211	В
213353	Cattle Farm	211	В
213354	Cattle Farm	211	В
214637	Cattle Farm	211	В
213355	Veterinary Services, Specialties	742	В
213356	Veterinary Services, Specialties	742	В
213357	Veterinary Services, Specialties	742	В
214166	Animal Specialty Services	752	В
213360	Single-family Housing Construction	1521	В
213449	Single-family Housing Construction	1521	В
213721	Single-family Housing Construction	1521	В
213726	Single-family Housing Construction	1521	В
214164	Single-family Housing Construction	1521	В
214192	Single-family Housing Construction	1521	В
214310	Nonresidential Construction	1542	В
214316	Nonresidential Construction	1542	В
213361	Highway and Street Construction	1611	В
213343	Meat Packing Plant Manufacturing	2011	В

Source No.	SIC Description	SIC ID	Zone
214220	Meat Packing Plant Manufacturing	2011	В
213367	Prepared Feeds For Animals and Fowls	2048	В
214151	Prepared Feeds For Animals and Fowls	2048	В
214315	Wood Kitchen Cabinets Manufacturing	2434	В
213368	Newspapers Publishing and Printing	2711	В
213884	Newspapers Publishing and Printing	2711	В
213369	Commercial Printing-Lithographic	2752	В
213370	Commercial Printing NEC	2759	В
213351	Asphalt Paving Mixtures And Blocks Manufacturing	2951	В
213819	Farm Machinery and Equipment	3523	В
214541	Farm Machinery and Equipment	3523	В
214287	Construction Machinery Manufacturing	3531	В
213718	Machinery, Except Electrical Manufacturing	3599	В
214280	Machinery, Except Electrical Manufacturing	3599	В
214292	Machinery, Except Electrical Manufacturing	3599	В
213689	Signs and Advertising Display Manufacturing	3993	В
213708	Signs and Advertising Display Manufacturing	3993	В

Source No.	SIC Description	SIC ID	Zone
214202	Signs and Advertising Display Manufacturing	3993	В
213341	Local Trucking, without Storage	4212	В
214218	Refuse Systems	4953	В
213345	Construction and Mining Machinery	5082	В
213849	Construction and Mining Machinery	5082	В
213382	Farm and Garden Machinery	5083	В
213383	Farm and Garden Machinery	5083	В
213384	Farm and Garden Machinery	5083	В
214507	Farm and Garden Machinery	5083	В
213387	Scrap and Waste Materials	5093	В
213690	Gasoline Service Station	5541	В
214155	Gasoline Service Station	5541	В
214209	Gasoline Service Station	5541	В
214522	Mobile Home Park	6515	В
213403	Recreational Vehicle Parks and Campsites	7033	В
214219	Recreational Vehicle Parks and Campsites	7033	В
213413	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
214136	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В

Source No.	SIC Description	SIC ID	Zone
214142	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
214268	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
214272	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
214305	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
214314	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
213415	Auto Truck Repair Service	7538	В
214174	Auto Truck Repair Service	7538	В
214198	Auto Truck Repair Service	7538	В
214205	Auto Truck Repair Service	7538	В
214255	Auto Truck Repair Service	7538	В
214260	Auto Truck Repair Service	7538	В
214512	Auto Truck Repair Service	7538	В
213810	Car Wash	7542	В
213832	Car Wash	7542	В
214270	Car Wash	7542	В
213416	Repair Services, Nec	7699	В
213730	Repair Services, Nec	7699	В
214157	Repair Services, Nec	7699	В

Source No.	SIC Description	SIC ID	Zone
214214	Repair Services, Nec	7699	В
214508	Repair Services, Nec	7699	В
214651	Dairy Farms	241	С
214343	Veterinary Services, Specialties	742	С
214344	Veterinary Services, Specialties	742	С
214345	Veterinary Services, Specialties	742	С
214346	Veterinary Services, Specialties	742	С
214347	Veterinary Services, Specialties	742	С
214652	Veterinary Services, Specialties	742	С
214653	Veterinary Services, Specialties	742	С
214654	Veterinary Services, Specialties	742	С
214655	Veterinary Services, Specialties	742	С
214656	Veterinary Services, Specialties	742	С
214669	Veterinary Services, Specialties	742	С
214670	Veterinary Services, Specialties	742	С
214535	Animal Specialty Services	752	С
214671	Animal Specialty Services	752	С
213569	Single–family Housing Construction	1521	С
213633	Single–family Housing Construction	1521	С
213723	Single–family Housing Construction	1521	С
213728	Single–family Housing Construction	1521	С
213756	Single–family Housing Construction	1521	С
214376	Single–family Housing Construction	1521	С

Source No.	SIC Description	SIC ID	Zone
214474	Single–family Housing Construction	1521	С
214495	Single–family Housing Construction	1521	С
214529	Single–family Housing Construction	1521	С
214538	Nonresidential Construction	1542	С
214560	Nonresidential Construction	1542	С
213976	Highway and Street Construction	1611	С
214581	Meat Packing Plant Manufacturing	2011	С
214672	Meat Packing Plant Manufacturing	2011	С
214557	Flour Mill and Other Food Grain Milling	2041	С
214059	Newspapers Publishing and Printing	2711	С
213893	Commercial Printing-Lithographic	2752	С
214646	Nitrogen Fertilizer Manufacturing	2873	С
213372	Ready-mix Concrete Plant	3273	С
214128	Ready-mix Concrete Plant	3273	С
214564	Farm Machinery and Equipment	3523	С
214308	Machinery, Except Electrical Manufacturing	3599	С
213766	Surgical Appliances and Supplies Manufacturing	3842	С
214514	Brooms and Brushes Manufacturing	3991	С
213591	Signs and Advertising Display Manufacturing	3993	С

Source No.	SIC Description	SIC ID	Zone
213565	Local Trucking, without Storage	4212	С
214650	Farm Product Warehousing and Storage	4221	С
214516	Farm and Garden Machinery	5083	С
214585	Farm and Garden Machinery	5083	С
214046	Gasoline Service Station	5541	С
214415	Gasoline Service Station	5541	С
214577	Gasoline Service Station	5541	С
214556	Recreational vehicle sales and repair	5561	С
214331	Photofinishing Laboratory	7384	С
214121	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214395	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
213618	Auto Truck Repair Service	7538	С
214498	Auto Truck Repair Service	7538	С
214644	Auto Truck Repair Service	7538	С
214645	Auto Truck Repair Service	7538	С
214689	Auto Truck Repair Service	7538	С
214692	Auto Truck Repair Service	7538	С
213677	Car Wash	7542	С
213753	Car Wash	7542	С
214690	Car Wash	7542	С
213678	Repair Services, Nec	7699	С

Source No.	SIC Description	SIC ID	Zone
213894	Repair Services, Nec	7699	С
214233	Repair Services, Nec	7699	С
214548	Repair Services, Nec	7699	С
214633	Repair Services, Nec	7699	С
214486	Golf Course	7992	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000019	K T Trucking	A-ARFO-T002	С
2000020	Andy's Truck Wash	A-UAFO-T001	С
2002389	Lantis Feed Yard	A-UAFO-B004	С
2002726	Winter Livestock Inc.	A-UAFO-C017	С

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000133	South Dodge 66	01658	В

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000135	Turn A Round	01665	В
3000330	Southwest Distributing	04071	В
3000355	Gladden Excavating	04346	В
3000540	River Stop	06299	В
3000567	Stotler Grocery	06405	В
3000604	Ryder Truck Rental, Dodge City	06537	В
3000645	Love's #58	06729	В
3000739	Southwest Oil Supply	07177	В
3000917	Southwest Oil Supply	09185	В
3001005	Council's Standard	13051	В
3001056	Goff Motors	14920	В
3001198	Gas N Go	20168	В
3001399	Fina #4792, Dodge City	25065	В
3001493	Dodge City Coop	25590	В
3001518	Rounds Porter Wholesale, Dodge City	25737	В
3001672	Kwik Shop #703	26411	В
3001824	Dodge City Sand	27077	В
3001894	Pepsi Cola	27385	В
3002040	U-pump-it, Dodge City	28246	В
3002137	Sw Bell	28767	В
3002687	Carr, Jeryl Donna Farm Site	81280	В
3000032	Grain Products	00154	С
3000257	M W Truck Service	03120	С

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000301	W A Brown, Inc	03691	С
3000306	Hy Plains Beef	03796	С
3000328	Broce Construction	04019	С
3000373	Jag Construction Co.	04631	С
3000427	Western Beverage	05221	С
3000499	Usd 443, Avts	06013	С
3000646	Love's #62	06730	С
3000890	Mariah Hills Golf	09036	С
3000918	Southwest Oil Supply	09186	С
3000977	Burt's Cycle Center	12328	С
3001010	Steffens Dairy Food	13274	С
3001094	Dodge City Tires	16074	С
3001110	Kindsvater Inc	16675	С
3001196	Skaggs Motors	20093	С
3001316	Safety-kleen	23570	С
3001400	Fina #9473, Dodge City	25068	С
3001440	Atsf Railway, Dodge City	25294	С
3001449	AtDodge City	25370	С
3001791	Isaac Truck Lines	26921	С
3001913	Organization Maint Shop #13	27454	С
3002026	Spee D Shop	28166	С
3002031	Phillips 66, N Central	28199	С
3002071	Foley Tractor	28385	С

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3002181	Roto-mix	28998	С
3002218	Ford Co, Public Works	29152	С
3002339	Great Western Tire	29723	С
3002374	Dodge City International	29950	С
3002673	Maupin Truck Parts	81248	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000043	BNSF DODGE CITY RAIL YARD	C102970945	С

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000506	City of Dodge City	0490-S	С
5000597	Dodge City Sand Co.	0584-S	С
5000693	Gladden Excavating	0671-S	С
5000826	APAC Kansas, IncShears Division	0797-S	С

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000053	LAZY ACRES MOBILE HOME PARK	C-UA11-NT03	С

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Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 388

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001321	grove of trees	0	В
9001322	Fuel, grain and feed and hay storage	10026	В
9001319	cropland	115	В
9001320	irrigated cropland	115	В

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Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 388

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
50	10	109	22	61	35

 $\mathbf{A}-Microbiolgical$

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

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Diversion Id's: 015, 005, 006, 003, 009, 012, 004, 008, 014, 001

Status: Accepted

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Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 388

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2951	Asphalt Paving Mixtures And Blocks Manufacturing	inorganics, VOCs	В
"	"	"	D
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
3991	Brooms and Brushes Manufacturing	inorganics, VOCs	В
"	"	"	D
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
3531	Construction Machinery Manufacturing	inorganics, VOCs	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3531	Construction Machinery Manufacturing	inorganics, VOCs	D
5082	Construction and Mining Machinery	NA	NA
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	A
"	"	"	В
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
7992	Golf Course	Fertilizers and pesticides	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
1611	Highway and Street Construction	Sedimentation	B2
4212	Local Trucking, without Storage	VOCs	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В
"	"	"	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A
"	"	"	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
6515	Mobile Home Park	Sanitary wastes, Fertilizers	B1
"	"	"	B*
2873	Nitrogen Fertilizer Manufacturing	nitrogen	В
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
7384	Photofinishing Laboratory	NA	В
"	"	"	D
3273	Ready-mix Concrete Plant	Minerals and TSS	В
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B*
"	"	"	C*
5093	Scrap and Waste Materials	Metals, TSS	В
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	В
"	"	"	D
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	B*
"	"	"	С
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	В
"	п	"	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	п	"	В
2434	Wood Kitchen Cabinets Manufacturing	TSS, VOCs	В
"	п	"	D
752	Animal Specialty Services	Sanitary, fertilizers	A
"	п	"	В
"	п	"	B1
"	п	II .	B2
"	п	II .	B*
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
2752	Commercial Printing-Lithographic	Inorganics, VOCs, Semi volatiles	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2752	Commercial Printing-Lithographic	Inorganics, VOCs, Semi volatiles	С
"	"	"	D
241	Dairy Farms	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
3523	Farm Machinery and Equipment	inorganics	В
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	В
"	"	"	D
5083	Farm and Garden Machinery	inorganics	В
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B2

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	B*
"	"	"	C*
5561	Recreational vehicle sales and repair	Inorganics	В
4953	Refuse Systems	ALL	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	В

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 388

Diversion Id's: 015, 005, 006, 003, 009, 012, 004, 008, 014, 001

Status: **Accepted**

Submit Date: **2003–05–07 16:06:42**

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 388

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2951	Asphalt Paving Mixtures And Blocks Manufacturing	inorganics, VOCs	Collect and pre-treat wastewater. Control storm water runoff. Minimize ground contamination with petroleum or other products. Control storm water runoff to minimize TSS transport	40 CFR 443 and State or federal Storm water pollution prevention regulations
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
3991	Brooms and Brushes Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
211	Cattle Farm	Sanitary, Fertilizers TSS, pesticides, Erosion and sedimentation	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals. Maintain riparian areas along waterways and keep cattle out of these areas. Proper Waste Management and Grazing Management.	KDHE– Livestock Waste Management Section, KAR 28–16, KDA, County Soil Conservation District, NRCS
3531	Construction Machinery Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
5082	Construction and Mining Machinery	NA	Discharge to POTW	NA
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	Wastewater pretreatment and/or discharge to a POTW	40 CFR 122 and State or federal Storm water pollution prevention regulations
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
7992	Golf Course	Fertilizers and pesticides	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals.	KDHE, KAR 28–16
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
4212	Local Trucking, without Storage	VOCs	Discharge to a POTW	State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5
2873	Nitrogen Fertilizer Manufacturing	nitrogen	Minimize contact of product with water. Contain and treat process wastewater	40 CFR 418 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
7384	Photofinishing Laboratory	NA	Discharge to POTW. Recycle chemicals	CFR 40 459

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3273	Ready–mix Concrete Plant	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	Discharge to POTW. Minimize use of lawn chemicals	NA
5093	Scrap and Waste Materials	Metals, TSS	Minimize contact with storm water	State or federal Storm water pollution prevention regulations
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
2434			Discharge of process waters to POTW. Minimize outdoor storage.	State or federal Storm water pollution prevention regulations
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	The state of the s	
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
241	Dairy Farms	Sanitary, fertilizers	Collect and treat process wastes. Use good erosion control practices. Minimize storm water contact with contaminants.	40 CFR 405
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations
4221	Farm Product Warehousing and Storage	TSS, VOCs Keep the area clear Use grease traps.		State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
2711	Newspapers Publishing and Printing			40 CFR 459 and State or federal Storm water pollution prevention regulations
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	Maintain animal feeding areas and feed storage areas to minimize contact with storm water. Collect and treat process wastes.	40 CFR 412 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source		
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

Assessment Area: 388

Diversion Id's: 015, 005, 006, 003, 009, 012, 004, 008, 014, 001

Status: Accepted

Submit Date: 2003–05–07 16:06:42

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 388

Ground Water Multiple Wells Analysis

 ${\bf A}$ – Microbiolgical ${\bf B}$ – Inorganic Compounds

B* – Nitrates
 C – Synthetic Organic Compounds
 C* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	B *	C	C *	D
1	Is any well under the influence of surface water?	No	0	0	0	0	0	0
2	Do all PWS wells meet KS PWS water well construction standards?	No	1	1	1	1	1	1
3	Is any well less than 30 feet deep?	No	0	0	0	0	0	0
4	Is gravel pack within 20 feet of any well surface?	Yes	1	1	1	1	1	1
5	Does a PWS own or control all the areas around the wells?	No	1	1	1	1	1	1
6	Does Zone B consist entirely of native grass?	No	2	2	2	2	2	2
7	Is there a contaminated well in Zone B?				0	0	0	0
8	Is a class V UIC well present?		1	1	1	1	1	1
9	Are any commercial, industrial, or urban areas present in Zone B?		1	1	1	1	1	1
10	Does each industrial/commercial site and urban area have a water quality protection plan in place?		1	1	1	1	1	1
11	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
12	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
13	Are any farmsteads present in Zone B? Yes		1	1	1	1	1	1
14	Do all farmsteads have a water quality protection plan?		0	0	0	0	0	0
15	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0
16	Have all livestock producers implemented water quality protection measures? No					0	0	0
17	Is there livestock confinement in Zone B?	Yes	1	1	1	0	1	0

No.	Question	Response	A	В	B *	C	C*	D
18	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
19	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
20	Are corn/grain sorghum nutrient and pesticide management plans in use for each site? Yes					0	0	0
21	Are any orchards present in Zone B?		0	0	0	0	0	0
22	Are orchard nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
23	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	Yes	1	1	1	0	0	0
24	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
25	Is there oil production in Zone B or C?	No	0	0	0	0	0	0
26	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
27	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
28	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
29	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
30	Are there unplugged, abandoned water wells present in Zone C?	Yes	2	1	1	1	1	1
31	Are any commercial, industrial, or urban area present in Zone C?	Yes	1	1	1	1	1	1
32	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
33	Is there livestock confinement in Zone C?	No	0	0	0	0	0	0
34	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
35	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
36	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
37	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
38	Does a perennial stream flow into Zone C?	No	0	0	0	0	0	0
39	Are watershed water quality protection plans in place?	Yes	0	0	0	0	0	0

Assessment Area: 388

Diversion Id's: 015, 005, 006, 003, 009, 012, 004, 008, 014, 001

Status: Accepted

Submit Date: 2003-05-07 16:06:42

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 388

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Andy's Truck Wash	2000020	This truckwash has groundwater monitoring.	Nicole Fisher
K T Trucking	2000019	This truckwash has no groundwater monitoring.	Nicole Fisher
Lantis Feed Yard	2002389	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Winter Livestock Inc.	2002726	This cattle livestock facility has no water quality protection plans.	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Hy Plains Beef	3000306	The site is closed from a 1991 gasoline leak. No groundwater contamination was suspected.	Nicole Fisher
Kindsvater Inc 30011		The site is closed from a waste oil spill in 1990. No groundwater contamination was suspected.	Nicole Fisher
Roto-mix 3002181		The site is currently being monitored from a 1989 gasoline spill. There are two public water wells within .25 miles downgradient of the spill. For information contact Aaron Norris (785) 296–8987	Nicole Fisher

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
BNSF DODGE CITY RAIL YARD	7000043	Inetroleum hydrocarbon impacts to the local	Nicole Fisher

Comments for Regulated Solid Waste Sites



Comments for Regulated Waste Water Sites

Did Not Receive Any Comments

Assessment Area: 388

Diversion Id's: 015, 005, 006, 003, 009, 012, 004, 008, 014, 001

Status: **Accepted**

Submit Date: 2003–05–07 16:06:42

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 388

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
Fuel, grain and feed and hay storage	9001322	This site could contaminate the public water supply	Nicole Fisher
cropland	9001319	This site could contaminate the public water supply.	Nicole Fisher
grove of trees	9001321	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher
irrigated cropland	9001320	This site could contaminate the public water supply.	Nicole Fisher

Assessment Area: 388

Diversion Id's: 015, 005, 006, 003, 009, 012, 004, 008, 014, 001

Status: **Accepted**

Submit Date: 2003-05-07 16:06:42

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 388

Comments for Analysis Questions

Analy	sis Question	Question Comments	Author		
Did Not Receive Any Comments					

Assessment Area: 389
Diversion Id's: 018

Status: Accepted

Submit Date: 2003–05–07 16:08:17

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 389

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	47	45	51	44	48	42
SLS Range	Low	Low	Low	Low	Low	Low

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Assessment Area: 389
Diversion Id's: 018

Status: Accepted

Submit Date: 2003–05–07 16:08:17

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 389

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214672	Meat Packing Plant Manufacturing	2011	С
214550	Newspapers Publishing and Printing	2711	С
214551	Commercial Printing-Lithographic	2752	С
214695	Farm Machinery and Equipment	3523	С
214675	Lawn and Garden Equipment Manufacturing	3524	С
214685	Machinery, Except Electrical Manufacturing	3599	С
214680	Recreational vehicle sales and repair	5012	С
214553	Farm and Garden Machinery	5083	С
214597	Recreational vehicle sales and repair	5561	С
214598	Recreational vehicle sales and repair	5561	С
214678	Mobile Home Park	6515	С
214681	Mobile Home Park	6515	С
219871	Auto Truck Repair Service	7538	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2002792	Coake Feeding Company, Inc.	A-UAFO-C003	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2002826	Dodge City Feeders	A-UAFO-C004	С
2002923	Winter Feed Yard, Inc.	A-UAFO-C001	С

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000374	Dodge City Implement	04639	С
3001019	Hitch N Post Truck Stop, Dodge City	13665	С
3001110	Kindsvater Inc	16675	С
3001234	3001234 W W Manufacturing		С
3001474	Liquid Carbonic –co2	25487	С
3001546	Presto #27	25842	С
3001588	3001588 Dodge City Airport, E Bus Hwy 50 56		С
3001764	3001764 Kdot, Dodge City		С
3001941	3001941 Excel Corp		С
3002181	Roto-mix	28998	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000035	FARMLAND INDUSTRIES, INC – NITROGEN PLANT	C102900009	С

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000163	Ford County	0175-S	С
5000245	Farmland Industries, Inc.	0242-S	С
5000383	Farmland Industries, Inc.	0375-S	С
5000640	Ford County HHW Program	0629-S	С

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000911	FARMLAND INDUSTRIES,INCNITROGEN PLANT	I-UA11-NP02	С
6000912	KOCH MATERIALS INC.	I-UA11-NP03	С

Assessment Area: 389
Diversion Id's: 018

Status: **Accepted**

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Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **DODGE CITY, CITY OF** Assessment Area: **389**

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001305	rural residence	0	В
9001306	cropland	115	В
9001319	cropland	115	В
9001331	cropland	115	В

Assessment Area: 389
Diversion Id's: 018

Status: Accepted

Submit Date: **2003–05–07 16:08:17**

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 389

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
3	0	12	2	6	3

A – Microbiolgical

B* – Nitrates

C* - Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Assessment Area: 389
Diversion Id's: 018

Status: Accepted

Submit Date: **2003–05–07 16:08:17**

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 389

Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	В
"	"	"	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В
"	"	"	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B*
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
3523	Farm Machinery and Equipment	inorganics	В
"	"	"	D

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
5083	Farm and Garden Machinery	inorganics	В
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
5012	Recreational vehicle sales and repair	Inorganics	В
5561	Recreational vehicle sales and repair	Inorganics	В

Assessment Area: 389
Diversion Id's: 018

Status: Accepted

Submit Date: **2003–05–07 16:08:17**

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: \mathbf{DODGE} \mathbf{CITY} , \mathbf{CITY} \mathbf{OF}

Assessment Area: 389

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
5012	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	NA
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly

Assessment Area: 389
Diversion Id's: 018

Status: Accepted

Submit Date: **2003–05–07 16:08:17**

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 389

Ground Water Single Well Analysis

A-Microbiolgical B-Inorganic Compounds

B* – Nitrates
 C – Synthetic Organic Compounds
 C* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	B *	C	C *	D
1	Is the well under the influence of surface water?		0	0	0	0	0	0
2	Does the well meet KS water well construction standards?	Yes	0	0	0	0	0	0
3	Is the depth of the well less than 30 feet?	No	0	0	0	0	0	0
4	Are there unplugged, abandoned water wells present in Zone A?	No	0	0	0	0	0	0
5	Is there gravel pack within 20 feet of the surface?	Yes	1	1	1	1	1	1
6	Does a PWS own or control Zone A?	Yes	0	0	0	0	0	0
7	Does Zone A consist entirely of native grass?	Yes	0	0	0	0	0	0
8	Is there a contaminated well in the Zone A?	No	0	0	0	0	0	0
9	Is a class V UIC well present?		0	0	0	0	0	0
10	Are any commercial, industrial, or urban areas present in Zone B?		1	1	1	1	1	1
11	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
12	Are any non-farm home sites present in Zone B?	No	0	0	0	0	0	0
13	Do all the non-farm home sites have a water quality protection plan?	Yes	0	0	0	0	0	0
14	Are any farmsteads present in Zone B?	Yes	1	1	1	1	1	1
15	Do all farmsteads have a water quality protection plan?	Yes	0	0	0	0	0	0
16	Does Zone B consist entirely of native grass?	No	1	1	1	1	1	1
17	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0

No.	Question	Response	A	В	B *	C	C *	D
18	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
19	Is there livestock confinement in Zone B?	Yes	1	1	1	0	1	0
20	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
21	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
22	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
23	Are any orchards present in Zone B?	No	0	0	0	0	0	0
24	Are orchard nutrient and pesticide plans in use for each site?	Yes	0	0	0	0	0	0
25	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0
26	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
27	Is there oil production in Zone B or C?	No	0	0	0	0	0	0
28	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
29	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
30	Is a wastewater treatment facility in Zone B or C?	No	0	0	0	0	0	0
31	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
32	Are there unplugged, abandoned water wells present in Zone B or C?	Yes	1	0	0	0	0	0
33	Are any commercial, industrial, or urban areas present in Zone C?	Yes	1	1	1	1	1	1
34	Are water quality protection plans in use for each site/area?	No	1	1	1	1	1	1
35	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
36	Is each confined livestock facility registered with KDHE?	No	1	1	1	0	1	0
37	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
38	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
39	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
40	Does a perennial stream flow into Zone C?	No	0	0	0	0	0	0
41	Are watershed water quality protection plans in place?	Yes	0	0	0	0	0	0

Assessment Area: 389
Diversion Id's: 018

Status: **Accepted**

Submit Date: 2003-05-07 16:08:17

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 389

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site No. Name		Site Comments	Author
Coake Feeding Company, Inc.	2002792	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Dodge City Feeders	2002826	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Winter Feed Yard, Inc.	2002923	This cattle livestock facility has no water quality protection plans.	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author	
Kindsvater Inc		1	Nicole Fisher	

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Roto-mix	3002181	The site is currently being monitored from a 1989 gasoline spill. There are two public water wells within .25 miles downgradient of the spill. For information contact Aaron Norris (785) 296–8987	Nicole Fisher
W W Manufacturing	3001234	The site is closed from a gasoline spill in 1989. No groundwater contamination was suspected.	Nicole Fisher

Comments for Regulated Identified Contaminated Sites

Did Not Receive Any Comments

Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author	
Ford County HHW Program	i atililinati	\mathcal{L}	Nicole Fisher	

Comments for Regulated Waste Water Sites

Did Not Receive Any Comments

Assessment Area: 389
Diversion Id's: 018

Status: Accepted

Submit Date: 2003–05–07 16:08:17

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **DODGE CITY, CITY OF** Assessment Area: **389**

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
cropland	9001306	l'I'his site could contaminate the nublic water supply	Nicole Fisher
cropland	9001319	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001331	This site could contaminate the public water supply.	Nicole Fisher
rural residence	9001305	This site could contaminate the public water supply.	Nicole Fisher

Assessment Area: 389
Diversion Id's: 018

Status: **Accepted**

Submit Date: 2003-05-07 16:08:17

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 389

Comments for Analysis Questions

Analysis Question	Question Comments	Author
Did N	Not Receive Any Comments	

Assessment Area: 390 Diversion Id's: 007

Status: Accepted

Submit Date: **2003–05–07 16:13:51**

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 390

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	44	45	43	52	48	51
SLS Range	Low	Low	Low	Mid	Low	Low

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Assessment Area: 390 Diversion Id's: 007

Status: Accepted

Submit Date: 2003–05–07 16:13:51

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **DODGE CITY, CITY OF** Assessment Area: **390**

Source No.	SIC Description	SIC ID	Zone
214128	Ready-mix Concrete Plant	3273	В
214121	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	В
214651	Dairy Farms	241	С
213512	Veterinary Services, Specialties	742	С
214343	Veterinary Services, Specialties	742	С
214344	Veterinary Services, Specialties	742	С
214345	Veterinary Services, Specialties	742	С
214346	Veterinary Services, Specialties	742	С
214347	Veterinary Services, Specialties	742	С
214652	Veterinary Services, Specialties	742	С
214653	Veterinary Services, Specialties	742	С
214654	Veterinary Services, Specialties	742	С
214655	Veterinary Services, Specialties	742	С
214656	Veterinary Services, Specialties	742	С
214669	Veterinary Services, Specialties	742	С
214670	Veterinary Services, Specialties	742	С
214166	Animal Specialty Services	752	С

Source No.	SIC Description	SIC ID	Zone
214671	Animal Specialty Services	752	С
213569	Single–family Housing Construction	1521	С
213633	Single–family Housing Construction	1521	С
213721	Single–family Housing Construction	1521	С
213723	Single–family Housing Construction	1521	С
213726	Single-family Housing Construction	1521	С
213728	Single-family Housing Construction	1521	С
213756	Single-family Housing Construction	1521	С
214164	Single-family Housing Construction	1521	С
214192	Single-family Housing Construction	1521	С
214376	Single-family Housing Construction	1521	С
214560	Nonresidential Construction	1542	С
214589	Nonresidential Construction	1542	С
213976	Highway and Street Construction	1611	С
214220	Meat Packing Plant Manufacturing	2011	С
214581	Meat Packing Plant Manufacturing	2011	С
214672	Meat Packing Plant Manufacturing	2011	С
214557	Flour Mill and Other Food Grain Milling	2041	С
214151	Prepared Feeds For Animals and Fowls	2048	С
213884	Newspapers Publishing and Printing	2711	С
214059	Newspapers Publishing and Printing	2711	С
214550	Newspapers Publishing and Printing	2711	С

Source No.	SIC Description	SIC ID	Zone
213893	Commercial Printing-Lithographic	2752	С
214551	Commercial Printing-Lithographic	2752	С
213514	Commercial Printing NEC	2759	С
214646	Nitrogen Fertilizer Manufacturing	2873	С
214595	Plastics products Manufacturing	3089	С
213819	Farm Machinery and Equipment	3523	С
214564	Farm Machinery and Equipment	3523	С
214695	Farm Machinery and Equipment	3523	С
214675	Lawn and Garden Equipment Manufacturing	3524	С
214287	Construction Machinery Manufacturing	3531	С
213718	Machinery, Except Electrical Manufacturing	3599	С
214280	Machinery, Except Electrical Manufacturing	3599	С
214292	Machinery, Except Electrical Manufacturing	3599	С
214308	Machinery, Except Electrical Manufacturing	3599	С
213766	Surgical Appliances and Supplies Manufacturing	3842	С
213591	Signs and Advertising Display Manufacturing	3993	С

Source No.	SIC Description	SIC ID	Zone
214202	Signs and Advertising Display Manufacturing	3993	С
213565	Local Trucking, without Storage	4212	С
214650	Farm Product Warehousing and Storage	4221	С
214218	Refuse Systems	4953	С
213849	Construction and Mining Machinery	5082	С
214507	Farm and Garden Machinery	5083	С
214553	Farm and Garden Machinery	5083	С
214046	Gasoline Service Station	5541	С
214155	Gasoline Service Station	5541	С
214209	Gasoline Service Station	5541	С
214415	Gasoline Service Station	5541	С
214577	Gasoline Service Station	5541	С
214556	Recreational vehicle sales and repair	5561	С
214522	Mobile Home Park	6515	С
214678	Mobile Home Park	6515	С
214219	Recreational Vehicle Parks and Campsites	7033	С
214331	Photofinishing Laboratory	7384	С
214136	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214142	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С

Source No.	SIC Description	SIC ID	Zone
214268	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214272	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214395	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
213618	Auto Truck Repair Service	7538	С
214174	Auto Truck Repair Service	7538	С
214198	Auto Truck Repair Service	7538	С
214205	Auto Truck Repair Service	7538	С
214255	Auto Truck Repair Service	7538	С
214260	Auto Truck Repair Service	7538	С
214498	Auto Truck Repair Service	7538	С
214512	Auto Truck Repair Service	7538	С
214644	Auto Truck Repair Service	7538	С
214645	Auto Truck Repair Service	7538	С
214689	Auto Truck Repair Service	7538	С
214692	Auto Truck Repair Service	7538	С
213677	Car Wash	7542	С
213753	Car Wash	7542	С
213810	Car Wash	7542	С
213832	Car Wash	7542	С
214270	Car Wash	7542	С

Source No.	SIC Description	SIC ID	Zone
214690	Car Wash	7542	С
213678	Repair Services, Nec	7699	С
213730	Repair Services, Nec	7699	С
213894	Repair Services, Nec	7699	С
214157	Repair Services, Nec	7699	С
214214	Repair Services, Nec	7699	С
214233	Repair Services, Nec	7699	С
214508	Repair Services, Nec	7699	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000019	K T Trucking	A-ARFO-T002	С
2000020	Andy's Truck Wash	A-UAFO-T001	С
2002726	Winter Livestock Inc.	A-UAFO-C017	С

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3002218	Ford Co, Public Works	29152	В

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000032	Grain Products	00154	С
3000133	South Dodge 66	01658	С
3000306	Hy Plains Beef	03796	С
3000330	Southwest Distributing	04071	С
3000374	Dodge City Implement	04639	С
3000427	Western Beverage	05221	С
3000499	Usd 443, Avts	06013	С
3000540	River Stop	06299	С
3000567	Stotler Grocery	06405	С
3000604	Ryder Truck Rental, Dodge City	06537	С
3000645	Love's #58	06729	С
3000646	Love's #62	06730	С
3000739	Southwest Oil Supply	07177	С
3000917	Southwest Oil Supply	09185	С
3000918	Southwest Oil Supply	09186	С
3000977	Burt's Cycle Center	12328	С
3001005	Council's Standard	13051	С
3001010	Steffens Dairy Food	13274	С
3001019	Hitch N Post Truck Stop, Dodge City	13665	С
3001056	Goff Motors	14920	С
3001094	Dodge City Tires	16074	С
3001110	Kindsvater Inc	16675	С
3001196	Skaggs Motors	20093	С

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3001198	Gas N Go	20168	С
3001234	W W Manufacturing	22507	С
3001316	Safety-kleen	23570	С
3001399	Fina #4792, Dodge City	25065	С
3001400	Fina #9473, Dodge City	25068	С
3001440	Atsf Railway, Dodge City	25294	С
3001449	AtDodge City	25370	С
3001493	Dodge City Coop	25590	С
3001518	Rounds Porter Wholesale, Dodge City	25737	С
3001546	Presto #27	25842	С
3001672	Kwik Shop #703	26411	С
3001764	Kdot, Dodge City	26744	С
3001791	Isaac Truck Lines	26921	С
3001894	Pepsi Cola	27385	С
3001913	Organization Maint Shop #13	27454	С
3002026	Spee D Shop	28166	С
3002031	Phillips 66, N Central	28199	С
3002040	U-pump-it, Dodge City	28246	С
3002041	U-pump-it, (fas Stop)	28247	С
3002071	Foley Tractor	28385	С
3002137	Sw Bell	28767	С
3002181	Roto-mix	28998	С
3002339	Great Western Tire	29723	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000043	BNSF DODGE CITY RAIL YARD	C102970945	В

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000163	Ford County	0175-S	С
5000506	City of Dodge City	0490-S	С
5000640	Ford County HHW Program	0629-S	С
5000693	Gladden Excavating	0671-S	С
5000826	APAC Kansas, IncShears Division	0797-S	С

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000912	KOCH MATERIALS INC.	I-UA11-NP03	С

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Status: Accepted

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Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **DODGE CITY, CITY OF** Assessment Area: **390**

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001305	rural residence	0	В
9001306	cropland	115	В
9001319	cropland	115	В

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Status: Accepted

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Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 390

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
35	3	84	17	52	22

 $\mathbf{A}-Microbiolgical$

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Assessment Area: 390 Diversion Id's: 007

Status: Accepted

Submit Date: **2003–05–07 16:13:51**

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 390

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
3531	Construction Machinery Manufacturing	inorganics, VOCs	В
"	"	"	D
5082	Construction and Mining Machinery	NA	NA
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	A
"	"	"	В
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
1611	Highway and Street Construction	Sedimentation	B2
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	В
"	"	"	D
4212	Local Trucking, without Storage	VOCs	D

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В
"	"	"	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B*
2873	Nitrogen Fertilizer Manufacturing	nitrogen	В
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
7384	Photofinishing Laboratory	NA	В
"	"	"	D
3089	Plastics products Manufacturing	inorganics, VOCs	В
"	"	"	D
3273	Ready-mix Concrete Plant	Minerals and TSS	В
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	A
"	"	"	В
"	"	"	B1

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	B*
"	"	"	C*
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	В
"	"	"	D
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	В
"	"	"	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	В
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B2

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
752	Animal Specialty Services	Sanitary, fertilizers	B*
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
241	Dairy Farms	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
3523	Farm Machinery and Equipment	inorganics	В
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	В
"	"	"	D
5083	Farm and Garden Machinery	inorganics	В
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	"	"	С

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	D
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	A
"	II .	"	В
"	II .	"	B1
"	II .	"	B2
"	II .	"	B*
"	II.	"	C*
5561	Recreational vehicle sales and repair	Inorganics	В
4953	Refuse Systems	ALL	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	В

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Status: Accepted

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Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **DODGE CITY, CITY OF** Assessment Area: **390**

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
3531	Construction Machinery Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
5082	Construction and Mining Machinery	NA	Discharge to POTW	NA
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	Wastewater pretreatment and/or discharge to a POTW	40 CFR 122 and State or federal Storm water pollution prevention regulations
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
4212	Local Trucking, without Storage	VOCs	Discharge to a POTW Discharge to a POTW	
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority	
2873	Nitrogen Fertilizer Manufacturing	nitrogen	Minimize contact of product with water. Contain and treat process wastewater	40 CFR 418 and State or federal Storm water pollution prevention regulations	
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE	
7384	Photofinishing Laboratory	NA	Discharge to POTW. Recycle chemicals	CFR 40 459	
3089	Plastics products Manufacturing	inorganics, VOCs	Pre-treat wastewater prior to discharge. Minimize outdoor storage and control storm water runoff.	40 CFR 463 and State or federal Storm water pollution prevention regulations	
3273	Ready-mix Concrete Plant	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations	
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	Discharge to POTW. Minimize use of lawn chemicals	NA	

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority	
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations	
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations	
241	Dairy Farms	Sanitary, fertilizers	Collect and treat process wastes. Use good erosion control practices. Minimize storm water contact with contaminants.	40 CFR 405	
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations	
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations	
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA	

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority		
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations		
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	Maintain animal feeding areas and feed storage areas to minimize contact with storm water. Collect and treat process wastes.	40 CFR 412 and State or federal Storm water pollution prevention regulations		
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly		
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water		
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA		

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Status: Accepted

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Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 390

Ground Water Single Well Analysis

A – Microbiolgical B – Inorganic Compounds

B* – Nitrates
 C – Synthetic Organic Compounds
 C* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	B *	C	C *	D
1	Is the well under the influence of surface water?	No	0	0	0	0	0	0
2	Does the well meet KS water well construction standards?			0	0	0	0	0
3	Is the depth of the well less than 30 feet?	No	0	0	0	0	0	0
4	Are there unplugged, abandoned water wells present in Zone A?	No	0	0	0	0	0	0
5	Is there gravel pack within 20 feet of the surface?	Yes	1	1	1	1	1	1
6	Does a PWS own or control Zone A?	No	1	1	1	1	1	1
7	Does Zone A consist entirely of native grass?	No	1	1	1	1	1	1
8	Is there a contaminated well in the Zone A?	No	0	0	0	0	0	0
9	Is a class V UIC well present?	No	0	0	0	0	0	0
10	Are any commercial, industrial, or urban areas present in Zone B?	Yes	1	1	1	1	1	1
11	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
12	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
13	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
14	Are any farmsteads present in Zone B?	No	0	0	0	0	0	0
15	Do all farmsteads have a water quality protection plan?	Yes	0	0	0	0	0	0
16	Does Zone B consist entirely of native grass?	No	1	1	1	1	1	1
17	Is there grazing livestock in Zone B?	No	0	0	0	0	0	0

No.	Question	Response	A	В	B *	C	C *	D
18	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
19	Is there livestock confinement in Zone B?	No	0	0	0	0	0	0
20	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
21	Is there corn or grain sorghum production in Zone B?	No	0	0	0	0	0	0
22	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
23	Are any orchards present in Zone B?	No	0	0	0	0	0	0
24	Are orchard nutrient and pesticide plans in use for each site?	Yes	0	0	0	0	0	0
25	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0
26	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
27	Is there oil production in Zone B or C?	No	0	0	0	0	0	0
28	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
29	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
30	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
31	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
32	Are there unplugged, abandoned water wells present in Zone B or C?	Yes	1	0	0	0	0	0
33	Are any commercial, industrial, or urban areas present in Zone C?	Yes	1	1	1	1	1	1
34	Are water quality protection plans in use for each site/area?	No	1	1	1	1	1	1
35	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
36	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
37	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
38	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
39	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
40	Does a perennial stream flow into Zone C?	No	0	0	0	0	0	0
41	Are watershed water quality protection plans in place?	Yes	0	0	0	0	0	0

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Status: **Accepted**

Submit Date: **2003–05–07 16:13:51**

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 390

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Andy's Truck Wash	2000020	This truckwash has groundwater monitoring.	Nicole Fisher
K T Trucking	2000019	This truckwash has no groundwater monitoring.	Nicole Fisher
Winter Livestock Inc.	2002726	1 7	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Hy Plains Beef	1 3111113116	ε	Nicole Fisher

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Kindsvater Inc	3001110	The site is closed from a waste oil spill in 1990. No groundwater contamination was suspected.	Nicole Fisher
Roto-mix	3002181	The site is currently being monitored from a 1989 gasoline spill. There are two public water wells within .25 miles downgradient of the spill. For information contact Aaron Norris (785) 296–8987	Nicole Fisher
W W Manufacturing	3001234	The site is closed from a gasoline spill in 1989. No groundwater contamination was suspected.	Nicole Fisher

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
BNSF DODGE CITY RAIL YARD	7000043	Inetroleum hydrocarbon impacts to the local	Nicole Fisher

Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Ford County HHW Program	5000640	\mathcal{L}	Nicole Fisher

Comments for Regulated Waste Water Sites



Assessment Area: 390 Diversion Id's: 007

Status: Accepted

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Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **DODGE CITY, CITY OF** Assessment Area: **390**

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
cropland	9001306	This site could contaminate the nublic water supply	Nicole Fisher
cropland	9001319	This site could contaminate the nublic water supply	Nicole Fisher
rural residence	9001305	This site could contaminate the nublic water supply	Nicole Fisher

Assessment Area: 390 Diversion Id's: 007

Status: Accepted

Submit Date: **2003–05–07 16:13:51**

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 390

Comments for Analysis Questions

Analy	sis Question	Question Comments	Author
Did Not Receive Any Comments			

Assessment Area: 391
Diversion Id's: 017, 010
Status: Accepted

Submit Date: 2003–05–07 16:15:21

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 391

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	54	49	56	56	56	59
SLS Range	Mid	Low	Mid	Mid	Mid	Mid

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Assessment Area: 391
Diversion Id's: 017, 010
Status: Accepted

Submit Date: 2003–05–07 16:15:21

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 391

Source No.	SIC Description	SIC ID	Zone
214595	Plastics products Manufacturing	3089	В
214651	Dairy Farms	241	С
213512	Veterinary Services, Specialties	742	С
214343	Veterinary Services, Specialties	742	С
214344	Veterinary Services, Specialties	742	С
214345	Veterinary Services, Specialties	742	С
214346	Veterinary Services, Specialties	742	С
214347	Veterinary Services, Specialties	742	С
214652	Veterinary Services, Specialties	742	С
214653	Veterinary Services, Specialties	742	С
214654	Veterinary Services, Specialties	742	С
214655	Veterinary Services, Specialties	742	С
214656	Veterinary Services, Specialties	742	С
214669	Veterinary Services, Specialties	742	С
214670	Veterinary Services, Specialties	742	С
214671	Animal Specialty Services	752	С
213538	Single-family Housing Construction	1521	С
213569	Single-family Housing Construction	1521	С

Source No.	SIC Description	SIC ID	Zone
213633	Single-family Housing Construction	1521	С
213723	Single–family Housing Construction	1521	С
213728	Single–family Housing Construction	1521	С
213756	Single–family Housing Construction	1521	С
214164	Single–family Housing Construction	1521	С
214376	Single–family Housing Construction	1521	С
214466	Single–family Housing Construction	1521	С
214600	Single–family Housing Construction	1521	С
214560	Nonresidential Construction	1542	С
214589	Nonresidential Construction	1542	С
213976	Highway and Street Construction	1611	С
214220	Meat Packing Plant Manufacturing	2011	С
214581	Meat Packing Plant Manufacturing	2011	С
214672	Meat Packing Plant Manufacturing	2011	С
214557	Flour Mill and Other Food Grain Milling	2041	С
214151	Prepared Feeds For Animals and Fowls	2048	С
213884	Newspapers Publishing and Printing	2711	С
214059	Newspapers Publishing and Printing	2711	С
214550	Newspapers Publishing and Printing	2711	С
213893	Commercial Printing-Lithographic	2752	С
214551	Commercial Printing-Lithographic	2752	С
213514	Commercial Printing NEC	2759	С

Source No.	SIC Description	SIC ID	Zone
214646	Nitrogen Fertilizer Manufacturing	2873	С
214128	Ready-mix Concrete Plant	3273	С
213819	Farm Machinery and Equipment	3523	С
214564	Farm Machinery and Equipment	3523	С
213766	Surgical Appliances and Supplies Manufacturing	3842	С
213591	Signs and Advertising Display Manufacturing	3993	С
214202	Signs and Advertising Display Manufacturing	3993	С
213565	Local Trucking, without Storage	4212	С
214650	Farm Product Warehousing and Storage	4221	С
214218	Refuse Systems	4953	С
213849	Construction and Mining Machinery	5082	С
214553	Farm and Garden Machinery	5083	С
214585	Farm and Garden Machinery	5083	С
214046	Gasoline Service Station	5541	С
214155	Gasoline Service Station	5541	С
214415	Gasoline Service Station	5541	С
214577	Gasoline Service Station	5541	С
214556	Recreational vehicle sales and repair	5561	С
214597	Recreational vehicle sales and repair	5561	С
214598	Recreational vehicle sales and repair	5561	С

Source No.	SIC Description	SIC ID	Zone
214219	Recreational Vehicle Parks and Campsites	7033	С
214331	Photofinishing Laboratory	7384	С
214121	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214136	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214142	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214395	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
213618	Auto Truck Repair Service	7538	С
214174	Auto Truck Repair Service	7538	С
214205	Auto Truck Repair Service	7538	С
214644	Auto Truck Repair Service	7538	С
214645	Auto Truck Repair Service	7538	С
214689	Auto Truck Repair Service	7538	С
214692	Auto Truck Repair Service	7538	С
213677	Car Wash	7542	С
213753	Car Wash	7542	С
213810	Car Wash	7542	С
213832	Car Wash	7542	С
214690	Car Wash	7542	С

Source No.	SIC Description	SIC ID	Zone
213678	Repair Services, Nec	7699	С
213894	Repair Services, Nec	7699	С
214157	Repair Services, Nec	7699	С
214633	Repair Services, Nec	7699	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2002726	Winter Livestock Inc.	A-UAFO-C017	C

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000032	Grain Products	00154	С
3000306	Hy Plains Beef	03796	С
3000330	Southwest Distributing	04071	С

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000374	Dodge City Implement	04639	С
3000427	Western Beverage	05221	С
3000499	Usd 443, Avts	06013	С
3000511	Western Plains Regional Hosp	06161	С
3000645	Love's #58	06729	С
3000646	Love's #62	06730	С
3000918	Southwest Oil Supply	09186	С
3001005	Council's Standard	13051	С
3001010	Steffens Dairy Food	13274	С
3001019	Hitch N Post Truck Stop, Dodge City	13665	С
3001094	Dodge City Tires	16074	С
3001110	Kindsvater Inc	16675	С
3001196	Skaggs Motors	20093	С
3001234	W W Manufacturing	22507	С
3001316	Safety-kleen	23570	С
3001400	Fina #9473, Dodge City	25068	С
3001440	Atsf Railway, Dodge City	25294	С
3001449	AtDodge City	25370	С
3001493	Dodge City Coop	25590	С
3001518	Rounds Porter Wholesale, Dodge City	25737	С
3001569	Victory Electric Coop	25951	С
3001588	Dodge City Airport, E Bus Hwy 50 56	26044	С
3001672	Kwik Shop #703	26411	С

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3001764	Kdot, Dodge City	26744	С
3001791	Isaac Truck Lines	26921	С
3001894	Pepsi Cola	27385	С
3001913	Organization Maint Shop #13	27454	С
3002026	Spee D Shop	28166	С
3002031	Phillips 66, N Central	28199	С
3002041	U-pump-it, (fas Stop)	28247	С
3002071	Foley Tractor	28385	С
3002137	Sw Bell	28767	С
3002181	Roto-mix	28998	С
3002218	Ford Co, Public Works	29152	С
3002339	Great Western Tire	29723	С
3002436	Kgno Am Radio	42787	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000043	BNSF DODGE CITY RAIL YARD	C102970945	C

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000163	Ford County	0175-S	С

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000640	Ford County HHW Program	0629-S	С

Regulated Waste Water Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

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Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **DODGE CITY, CITY OF**

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Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001319	cropland	115	В
9001331	cropland	115	В

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Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: DODGE CITY, CITY OF

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Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
32	3	64	17	36	19

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

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Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 391

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
5082	Construction and Mining Machinery	NA	NA
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	A
"	"	"	В
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
1611	Highway and Street Construction	Sedimentation	B2
4212	Local Trucking, without Storage	VOCs	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
2873	Nitrogen Fertilizer Manufacturing	nitrogen	В
"	"	"	B*

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
1542	Nonresidential Construction	Sedimentation	B2
7384	Photofinishing Laboratory	NA	В
"	"	"	D
3089	Plastics products Manufacturing	inorganics, VOCs	В
"	"	"	D
3273	Ready-mix Concrete Plant	Minerals and TSS	В
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B*
"	"	"	C*
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	В
"	"	"	D
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	В
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	п	"	D
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
241	Dairy Farms	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
241	Dairy Farms	Sanitary, fertilizers	B2
"	"	"	B*
3523	Farm Machinery and Equipment	inorganics	В
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	В
"	"	"	D
5083	Farm and Garden Machinery	inorganics	В
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
5561	Recreational vehicle sales and repair	Inorganics	В
4953	Refuse Systems	ALL	A
"	"	"	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
4953	Refuse Systems	ALL	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	В

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Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 391

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority	
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and	
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442	
5082	Construction and Mining Machinery	NA	Discharge to POTW	NA	
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	Wastewater pretreatment and/or discharge to a POTW	40 CFR 122 and State or federal Storm water pollution prevention regulations	
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA	
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE	

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
4212	Local Trucking, without Storage	VOCs	Discharge to a POTW	State or federal Storm water pollution prevention regulations
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations
2873	Nitrogen Fertilizer Manufacturing	nitrogen	Minimize contact of product with water. Contain and treat process wastewater	40 CFR 418 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
7384	Photofinishing Laboratory	NA	Discharge to POTW. Recycle chemicals	CFR 40 459
3089	Plastics products Manufacturing	inorganics, VOCs	Pre-treat wastewater prior to discharge. Minimize outdoor storage and control storm water runoff.	40 CFR 463 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority	
3273	Ready-mix Concrete Plant	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations	
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	Discharge to POTW. Minimize use of lawn chemicals	NA	
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations	
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM	
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations	
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA	

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
241	Dairy Farms	Sanitary, fertilizers	Collect and treat process wastes. Use good erosion control practices. Minimize storm water contact with contaminants.	40 CFR 405
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles Recycle chemicals wh possible. Discharge to		40 CFR 459 and State or federal Storm water pollution prevention regulations
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	Maintain animal feeding areas and feed storage areas to minimize contact with storm water. Collect and treat process wastes.	40 CFR 412 and State or federal Storm water pollution prevention regulations
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water

SIC	С	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
769	99	Repair Services, Nec	inorganics	Discharge to POTW	NA

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Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 391

Ground Water Multiple Wells Analysis

 $A-\hbox{Microbiolgical}\ B-\hbox{Inorganic Compounds}$

B* – Nitrates
 C – Synthetic Organic Compounds
 C* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	B *	C	C *	D
1	Is any well under the influence of surface water?	No	0	0	0	0	0	0
2	Do all PWS wells meet KS PWS water well construction standards?	Yes	0	0	0	0	0	0
3	Is any well less than 30 feet deep?	No	0	0	0	0	0	0
4	Is gravel pack within 20 feet of any well surface?	Yes	1	1	1	1	1	1
5	Does a PWS own or control all the areas around the wells?	No	1	1	1	1	1	1
6	Does Zone B consist entirely of native grass?	No	2	2	2	2	2	2
7	Is there a contaminated well in Zone B?	No	0	0	0	0	0	0
8	Is a class V UIC well present?	No	0	0	0	0	0	0
9	Are any commercial, industrial, or urban areas present in Zone B?	Yes	1	1	1	1	1	1
10	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
11	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
12	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
13	Are any farmsteads present in Zone B?	Yes	1	1	1	1	1	1
14	Do all farmsteads have a water quality protection plan?	No	1	1	1	1	1	1
15	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0
16	Have all livestock producers implemented water quality protection measures?	No	1	0	1	0	0	0
17	Is there livestock confinement in Zone B?	No	0	0	0	0	0	0

No.	Question	Response	A	В	B *	C	C*	D
18	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
19	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
20	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
21	Are any orchards present in Zone B?	No	0	0	0	0	0	0
22	Are orchard nutrient and pesticide management plans in use for each site?	Yes	0	0	0	0	0	0
23	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0
24	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
25	Is there oil production in Zone B or C?	No	0	0	0	0	0	0
26	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
27	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
28	Is a wastewater treatment facility in Zone B or C?	No	0	0	0	0	0	0
29	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
30	Are there unplugged, abandoned water wells present in Zone C?	Yes	2	1	1	1	1	1
31	Are any commercial, industrial, or urban area present in Zone C?	Yes	1	1	1	1	1	1
32	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
33	Is there livestock confinement in Zone C?	No	0	0	0	0	0	0
34	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
35	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
36	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
37	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
38	Does a perennial stream flow into Zone C?	No	0	0	0	0	0	0
39	Are watershed water quality protection plans in place?	Yes	0	0	0	0	0	0

Assessment Area: 391

Diversion Id's: 017, 010

Status: Accepted

Submit Date: 2003–05–07 16:15:21

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 391

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Winter Livestock Inc.	/UU///n	J 1 J	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Hy Plains Beef	1 3111113116	\mathcal{E}	Nicole Fisher

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Kindsvater Inc	3001110	The site is closed from a waste oil spill in 1990. No groundwater contamination was suspected.	Nicole Fisher
Roto-mix	3002181	The site is currently being monitored from a 1989 gasoline spill. There are two public water wells within .25 miles downgradient of the spill. For information contact Aaron Norris (785) 296–8987	Nicole Fisher
W W Manufacturing	3001234	The site is closed from a gasoline spill in 1989. No groundwater contamination was suspected.	Nicole Fisher

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	I Site No. 1 Site Comments		Author
BNSF DODGE CITY RAIL YARD	7000043	Inetroleum hydrocarbon impacts to the local	Nicole Fisher

Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Ford County HHW Program	I ういいいわない	\mathcal{L}	Nicole Fisher

Comments for Regulated Waste Water Sites



Assessment Area: 391
Diversion Id's: 017, 010
Status: Accepted

Submit Date: 2003–05–07 16:15:21

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 391

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site No. Site Comments	
cropland	9001319	l'I'hie eite could contaminate the nublic water cupply	Nicole Fisher
cropland	9001331	This site could contaminate the nublic water supply	Nicole Fisher

Assessment Area: 391
Diversion Id's: 017, 010
Status: Accepted

Submit Date: 2003–05–07 16:15:21

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 391

Comments for Analysis Questions

Analy	sis Question	Question Comments	Author
Did Not Receive Any Comments			

Assessment Area: 392
Diversion Id's: 013

Status: Accepted

Submit Date: 2003–05–07 16:17:51

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 392

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	47	42	51	44	48	42
SLS Range	Low	Low	Low	Low	Low	Low

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Assessment Area: 392
Diversion Id's: 013

Status: Accepted

Submit Date: 2003–05–07 16:17:51

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 392

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
213512	Veterinary Services, Specialties	742	С
214343	Veterinary Services, Specialties	742	С
214344	Veterinary Services, Specialties	742	С
214345	Veterinary Services, Specialties	742	С
214346	Veterinary Services, Specialties	742	С
214347	Veterinary Services, Specialties	742	С
214166	Animal Specialty Services	752	С
213569	Single-family Housing Construction	1521	С
213633	Single-family Housing Construction	1521	С
213721	Single-family Housing Construction	1521	С
213723	Single-family Housing Construction	1521	С
213726	Single-family Housing Construction	1521	С
213728	Single-family Housing Construction	1521	С
213756	Single-family Housing Construction	1521	С
214164	Single-family Housing Construction	1521	С
214192	Single-family Housing Construction	1521	С
214376	Single-family Housing Construction	1521	С
214474	Single-family Housing Construction	1521	С

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214495	Single–family Housing Construction	1521	С
214600	Single–family Housing Construction	1521	С
214589	Nonresidential Construction	1542	С
213976	Highway and Street Construction	1611	С
214151	Prepared Feeds For Animals and Fowls	2048	С
213884	Newspapers Publishing and Printing	2711	С
214059	Newspapers Publishing and Printing	2711	С
213893	Commercial Printing-Lithographic	2752	С
213514	Commercial Printing NEC	2759	С
213819	Farm Machinery and Equipment	3523	С
213718	Machinery, Except Electrical Manufacturing	3599	С
214308	Machinery, Except Electrical Manufacturing	3599	С
213766	Surgical Appliances and Supplies Manufacturing	3842	С
213591	Signs and Advertising Display Manufacturing	3993	С
213689	Signs and Advertising Display Manufacturing	3993	С
213708	Signs and Advertising Display Manufacturing	3993	С
214202	Signs and Advertising Display Manufacturing	3993	С

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
213565	Local Trucking, without Storage	4212	С
213849	Construction and Mining Machinery	5082	С
214585	Farm and Garden Machinery	5083	С
213690	Gasoline Service Station	5541	С
214046	Gasoline Service Station	5541	С
214155	Gasoline Service Station	5541	С
214209	Gasoline Service Station	5541	С
214415	Gasoline Service Station	5541	С
214331	Photofinishing Laboratory	7384	С
214136	Top, Body, and Upholstery Repair Shops and Paint Shops 7532		С
214142	Top, Body, and Upholstery Repair Shops and Paint Shops		С
214395	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
213618	Auto Truck Repair Service	7538	С
214174	Auto Truck Repair Service	7538	С
214205	Auto Truck Repair Service	7538	С
213677	Car Wash	7542	С
213753	Car Wash	7542	С
213810	Car Wash	7542	С
213832	Car Wash 7542		С
213678	Repair Services, Nec	7699	С

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
213730	Repair Services, Nec	7699	С
213894	Repair Services, Nec	7699	С
214157	Repair Services, Nec	7699	С
214214	Repair Services, Nec	7699	С
214233	Repair Services, Nec	7699	С
214633	Repair Services, Nec	7699	С
214486	Golf Course	7992	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2002389	Lantis Feed Yard	A-UAFO-B004	С

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000890	Mariah Hills Golf	09036	В

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000133	South Dodge 66	01658	С
3000135	Turn A Round	01665	С
3000330	Southwest Distributing	04071	С
3000355	Gladden Excavating	04346	С
3000427	Western Beverage	05221	С
3000499	Usd 443, Avts	06013	С
3000511	Western Plains Regional Hosp	06161	С
3000540	River Stop	06299	С
3000604	Ryder Truck Rental, Dodge City	06537	С
3000645	Love's #58	06729	С
3000646	Love's #62	06730	С
3000918	Southwest Oil Supply	09186	С
3001005	Council's Standard	13051	С
3001094	Dodge City Tires	16074	С
3001196	Skaggs Motors	20093	С
3001400	Fina #9473, Dodge City	25068	С
3001440	Atsf Railway, Dodge City	25294	С
3001449	AtDodge City	25370	С
3001493	Dodge City Coop	25590	С
3001518	Rounds Porter Wholesale, Dodge City	25737	С
3001569	Victory Electric Coop	25951	С
3001672	Kwik Shop #703	26411	С
3001824	Dodge City Sand	27077	С

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3001894	Pepsi Cola	27385	С
3001913	Organization Maint Shop #13	27454	С
3002026	Spee D Shop	28166	С
3002031	Phillips 66, N Central	28199	С
3002040	U-pump-it, Dodge City	28246	С
3002041	U-pump-it, (fas Stop)	28247	С
3002137	Sw Bell	28767	С
3002339	Great Western Tire	29723	С

Regulated Identified Contaminated Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000597	Dodge City Sand Co.	0584-S	С

Regulated Waste Water Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Assessment Area: 392
Diversion Id's: 013

Status: Accepted

Submit Date: 2003–05–07 16:17:51

Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 392

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001321	grove of trees	0	В
9001322	Fuel, grain and feed and hay storage	10026	В
9001320	irrigated cropland	115	В

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Diversion Id's: 013

Status: Accepted

Submit Date: 2003–05–07 16:17:51

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 392

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
22	2	44	17	29	16

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Assessment Area: 392
Diversion Id's: 013

Status: Accepted

Submit Date: 2003–05–07 16:17:51

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 392

Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
5082	Construction and Mining Machinery	NA	NA
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
7992	Golf Course	Fertilizers and pesticides	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
1611	Highway and Street Construction	Sedimentation	B2
4212	Local Trucking, without Storage	VOCs	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	D
1542	Nonresidential Construction	Sedimentation	B2
7384	Photofinishing Laboratory	NA	В
"	"	"	D
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	В
"	"	"	D
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	В
"	"	"	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	В
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	В

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
752	Animal Specialty Services	Sanitary, fertilizers	B1
"	"	"	B2
"	"	"	B*
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
2752	Commercial Printing-Lithographic	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
3523	Farm Machinery and Equipment	inorganics	В
"	"	"	D
5083	Farm and Garden Machinery	inorganics	В
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B2

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	B*
"	"	"	C*
7699	Repair Services, Nec	inorganics	В

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Diversion Id's: 013

Status: Accepted

Submit Date: **2003–05–07 16:17:51**

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 392

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
5082	Construction and Mining Machinery	NA	Discharge to POTW	NA
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
7992	Golf Course	Fertilizers and pesticides	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals.	KDHE, KAR 28–16
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
4212	Local Trucking, without Storage	VOCs	Discharge to a POTW	State or federal Storm water pollution prevention regulations
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct		State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
7384	Photofinishing Laboratory	NA	Discharge to POTW. Recycle chemicals	CFR 40 459
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS Discharge to POT		NA
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	Maintain animal feeding areas and feed storage areas to minimize contact with storm water. Collect and treat process wastes.	40 CFR 412 and State or federal Storm water pollution prevention regulations
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

Assessment Area: 392
Diversion Id's: 013

Status: Accepted

Submit Date: 2003–05–07 16:17:51

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 392

Ground Water Single Well Analysis

A – Microbiolgical B – Inorganic Compounds

B* – Nitrates
 C – Synthetic Organic Compounds
 C* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	B *	C	C*	D
1	Is the well under the influence of surface water?	No	0	0	0	0	0	0
2	Does the well meet KS water well construction standards?	Yes	0	0	0	0	0	0
3	Is the depth of the well less than 30 feet?	No	0	0	0	0	0	0
4	Are there unplugged, abandoned water wells present in Zone A?	No	0	0	0	0	0	0
5	Is there gravel pack within 20 feet of the surface?	Yes	1	1	1	1	1	1
6	Does a PWS own or control Zone A?	Yes	0	0	0	0	0	0
7	Does Zone A consist entirely of native grass?	No	1	1	1	1	1	1
8	Is there a contaminated well in the Zone A?	No	0	0	0	0	0	0
9	Is a class V UIC well present?		0	0	0	0	0	0
10	Are any commercial, industrial, or urban areas present in Zone B?			1	1	1	1	1
11	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
12	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
13	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
14	Are any farmsteads present in Zone B?		0	0	0	0	0	0
15	Do all farmsteads have a water quality protection plan?		0	0	0	0	0	0
16	Does Zone B consist entirely of native grass?	No	1	1	1	1	1	1
17	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0

No.	Question	Response	A	В	B *	C	C *	D
18	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
19	Is there livestock confinement in Zone B?	No	0	0	0	0	0	0
20	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
21	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
22	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?		0	0	1	0	1	0
23	Are any orchards present in Zone B?	No	0	0	0	0	0	0
24	Are orchard nutrient and pesticide plans in use for each site?	Yes	0	0	0	0	0	0
25	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	Yes	1	1	1	0	0	0
26	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
27	Is there oil production in Zone B or C?	No	0	0	0	0	0	0
28	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
29	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
30	Is a wastewater treatment facility in Zone B or C?	No	0	0	0	0	0	0
31	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
32	Are there unplugged, abandoned water wells present in Zone B or C?	Yes	1	0	0	0	0	0
33	Are any commercial, industrial, or urban areas present in Zone C?	Yes	1	1	1	1	1	1
34	Are water quality protection plans in use for each site/area?	No	1	1	1	1	1	1
35	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
36	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
37	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
38	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
39	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
40	Does a perennial stream flow into Zone C?	No	0	0	0	0	0	0
41	Are watershed water quality protection plans in place?	Yes	0	0	0	0	0	0

Assessment Area: 392
Diversion Id's: 013

Status: **Accepted**

Submit Date: **2003–05–07 16:17:51**

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 392

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Lantis Feed Yard	2002389	1 2	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Did Not Receive Any Comments

Comments for Regulated Identified Contaminated Sites

Did Not Receive Any Comments

Comments for	Regulated	Solid	Waste	Sites
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Did Not Receive Any Comments

Comments for Regulated Waste Water Sites

Did Not Receive Any Comments

Assessment Area: 392
Diversion Id's: 013

Status: **Accepted**

Submit Date: 2003–05–07 16:17:51

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 392

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
Fuel, grain and feed and hay storage	9001322	This site could contaminate the nublic water supply	Nicole Fisher
grove of trees	9001321	•	Nicole Fisher
irrigated cropland	9001320	I'I'his site could contaminate the public water supply	Nicole Fisher

Assessment Area: 392
Diversion Id's: 013

Status: **Accepted**

Submit Date: 2003-05-07 16:17:51

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 392

Comments for Analysis Questions

Analysis Question	Question Comments	Author	
Did Not Receive Any Comments			

Assessment Area: 393
Diversion Id's: 016

Status: **Accepted**

Submit Date: 2003–05–07 16:19:52

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 393

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	57	49	58	48	53	46
SLS Range	Mid	Low	Mid	Low	Mid	Low

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Assessment Area: 393
Diversion Id's: 016

Status: Accepted

Submit Date: 2003–05–07 16:19:52

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: \mathbf{DODGE} \mathbf{CITY} , \mathbf{CITY} \mathbf{OF}

Assessment Area: 393

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214651	Dairy Farms	241	С
214652	Veterinary Services, Specialties	742	С
214653	Veterinary Services, Specialties	742	С
214654	Veterinary Services, Specialties	742	С
214655	Veterinary Services, Specialties	742	С
214656	Veterinary Services, Specialties	742	С
214669	Veterinary Services, Specialties	742	С
214670	Veterinary Services, Specialties	742	С
214671	Animal Specialty Services	752	С
214560	Nonresidential Construction	1542	С
214581	Meat Packing Plant Manufacturing	2011	С
214672	Meat Packing Plant Manufacturing	2011	С
214557	Flour Mill and Other Food Grain Milling	2041	С
214550	Newspapers Publishing and Printing	2711	С
214551	Commercial Printing-Lithographic	2752	С
214595	Plastics products Manufacturing	3089	С
214128	Ready-mix Concrete Plant	3273	С

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214564	Farm Machinery and Equipment	3523	С
214695	Farm Machinery and Equipment	3523	С
214675	Lawn and Garden Equipment Manufacturing	3524	С
214685	Machinery, Except Electrical Manufacturing	3599	С
214650	Farm Product Warehousing and Storage	4221	С
214680	Recreational vehicle sales and repair	5012	С
214553	Farm and Garden Machinery	5083	С
214577	Gasoline Service Station	5541	С
214556	Recreational vehicle sales and repair	5561	С
214597	Recreational vehicle sales and repair	5561	С
214598	Recreational vehicle sales and repair	5561	С
214678	Mobile Home Park	6515	С
214681	Mobile Home Park	6515	С
214121	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214689	Auto Truck Repair Service	7538	С
214692	Auto Truck Repair Service	7538	С
214690	Car Wash	7542	С
213678	Repair Services, Nec	7699	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000019	K T Trucking	A-ARFO-T002	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000020	Andy's Truck Wash	A-UAFO-T001	С
2002826	Dodge City Feeders	A-UAFO-C004	С

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000032	Grain Products	00154	С
3000306	Hy Plains Beef	03796	С
3000374	Dodge City Implement	04639	С
3001010	Steffens Dairy Food	13274	С
3001019	Hitch N Post Truck Stop, Dodge City	13665	С
3001110	Kindsvater Inc	16675	С
3001234	W W Manufacturing	22507	С
3001546	Presto #27	25842	С
3001588	Dodge City Airport, E Bus Hwy 50 56	26044	С
3001764	Kdot, Dodge City	26744	С
3001791	Isaac Truck Lines	26921	С

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3001941	Excel Corp	27557	С
3002071	Foley Tractor	28385	С
3002181	Roto-mix	28998	С
3002218	Ford Co, Public Works	29152	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000043	BNSF DODGE CITY RAIL YARD	C102970945	C

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000163	Ford County	0175-S	С
5000640	Ford County HHW Program	0629-S	С

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000912	KOCH MATERIALS INC.	I-UA11-NP03	C

Assessment Area: 393
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Status: Accepted

Submit Date: 2003-05-07 16:19:52

Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 393

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001305	rural residence	0	В
9001306	cropland	115	В
9001319	cropland	115	В
9001331	cropland	115	В

Assessment Area: 393
Diversion Id's: 016

Status: Accepted

Submit Date: 2003-05-07 16:19:52

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 393

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
14	0	32	2	13	6

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Assessment Area: 393
Diversion Id's: 016

Status: Accepted

Submit Date: 2003-05-07 16:19:52

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 393

Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	A
"	"	"	В
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	В
"	"	"	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В
"	"	"	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
6515	Mobile Home Park	Sanitary wastes, Fertilizers	В
"	"	"	B1
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
3089	Plastics products Manufacturing	inorganics, VOCs	В
"	п	"	D
3273	Ready-mix Concrete Plant	Minerals and TSS	В
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	В
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	В
"	п	"	B1
"	п	"	B2
"	п	"	B*
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
241	Dairy Farms	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
3523	Farm Machinery and Equipment	inorganics	В
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	В
"	"	"	D
5083	Farm and Garden Machinery	inorganics	В
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
5012	Recreational vehicle sales and repair	Inorganics	В
5561	Recreational vehicle sales and repair	Inorganics	В
7699	Repair Services, Nec	inorganics	В

Assessment Area: 393
Diversion Id's: 016

Status: Accepted

Submit Date: 2003-05-07 16:19:52

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 393

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority	
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and	
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442	
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	Wastewater pretreatment and/or discharge to a POTW	40 CFR 122 and State or federal Storm water pollution prevention regulations	
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA	
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations	
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations	

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority	
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations	
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5	
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE	
3089	Plastics products Manufacturing	inorganics, VOCs	Pre-treat wastewater prior to discharge. Minimize outdoor storage and control storm water runoff.	40 CFR 463 and State or federal Storm water pollution prevention regulations	
3273	Ready-mix Concrete Plant	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations	
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA	

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority	
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA	
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA	
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations	
241	Dairy Farms	Sanitary, fertilizers	Collect and treat process wastes. Use good erosion control practices. Minimize storm water contact with contaminants.	40 CFR 405	
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations	
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations	

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority	
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA	
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations	
5012	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	NA	
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly	
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA	

Assessment Area: 393
Diversion Id's: 016

Status: **Accepted**

Submit Date: 2003–05–07 16:19:52

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 393

Ground Water Single Well Analysis

A – Microbiolgical B – Inorganic Compounds

B* – Nitrates
 C – Synthetic Organic Compounds
 C* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	B *	C	C *	D
1	Is the well under the influence of surface water?	No	0	0	0	0	0	0
2	Does the well meet KS water well construction standards?	Yes	0	0	0	0	0	0
3	Is the depth of the well less than 30 feet?	No	0	0	0	0	0	0
4	Are there unplugged, abandoned water wells present in Zone A?	No	0	0	0	0	0	0
5	Is there gravel pack within 20 feet of the surface?	Yes	1	1	1	1	1	1
6	Does a PWS own or control Zone A?	Yes	0	0	0	0	0	0
7	Does Zone A consist entirely of native grass?	No	1	1	1	1	1	1
8	Is there a contaminated well in the Zone A?	No	0	0	0	0	0	0
9	Is a class V UIC well present?	No	0	0	0	0	0	0
10	Are any commercial, industrial, or urban areas present in Zone B?	Yes	1	1	1	1	1	1
11	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
12	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
13	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
14	Are any farmsteads present in Zone B?	No	0	0	0	0	0	0
15	Do all farmsteads have a water quality protection plan?	Yes	0	0	0	0	0	0
16	Does Zone B consist entirely of native grass?	No	1	1	1	1	1	1
17	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0

No.	Question	Response	A	В	B *	C	C*	D
18	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
19	Is there livestock confinement in Zone B?	No	0	0	0	0	0	0
20	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
21	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
22	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
23	Are any orchards present in Zone B?	No	0	0	0	0	0	0
24	Are orchard nutrient and pesticide plans in use for each site?	Yes	0	0	0	0	0	0
25	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	Yes	1	1	1	0	0	0
26	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
27	Is there oil production in Zone B or C?	No	0	0	0	0	0	0
28	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
29	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
30	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
31	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
32	Are there unplugged, abandoned water wells present in Zone B or C?	Yes	1	0	0	0	0	0
33	Are any commercial, industrial, or urban areas present in Zone C?	Yes	1	1	1	1	1	1
34	Are water quality protection plans in use for each site/area?	No	1	1	1	1	1	1
35	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
36	Is each confined livestock facility registered with KDHE?	No	1	1	1	0	1	0
37	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
38	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
39	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
40	Does a perennial stream flow into Zone C?	No	0	0	0	0	0	0
41	Are watershed water quality protection plans in place?	Yes	0	0	0	0	0	0

Assessment Area: 393
Diversion Id's: 016

Status: Accepted

Submit Date: 2003-05-07 16:19:52

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 393

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Andy's Truck Wash	2000020	This truckwash has groundwater monitoring.	Nicole Fisher
Dodge City Feeders	2002826	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
K T Trucking	2000019	This truckwash has no groundwater monitoring.	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Hy Plains Beef	1 3111113116	ε	Nicole Fisher

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Kindsvater Inc	3001110	The site is closed from a waste oil spill in 1990. No groundwater contamination was suspected.	Nicole Fisher
Roto-mix 300		The site is currently being monitored from a 1989 gasoline spill. There are two public water wells within .25 miles downgradient of the spill. For information contact Aaron Norris (785) 296–8987	Nicole Fisher
W W Manufacturing	3001234	The site is closed from a gasoline spill in 1989. No groundwater contamination was suspected.	Nicole Fisher

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
BNSF DODGE CITY RAIL YARD	7000043	Inetroleum hydrocarbon impacts to the local	Nicole Fisher

Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Ford County HHW Program	I ういいいわない	\mathcal{L}	Nicole Fisher

Comments for Regulated Waste Water Sites



Assessment Area: 393
Diversion Id's: 016

Status: Accepted

Submit Date: 2003–05–07 16:19:52

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 393

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
cropland	9001306	l'I'his site could contaminate the nublic water supply	Nicole Fisher
cropland	9001319	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001331	This site could contaminate the public water supply.	Nicole Fisher
rural residence	9001305	This site could contaminate the public water supply.	Nicole Fisher

Assessment Area: 393
Diversion Id's: 016

Status: Accepted

Submit Date: 2003-05-07 16:19:52

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 393

Comments for Analysis Questions

Analysis Question	Question Comments	Author		
Did Not Receive Any Comments				

Assessment Area: 394
Diversion Id's: 011

Status: Accepted

Submit Date: 2003–05–08 14:13:06

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 394

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	54	52	56	52	56	51
SLS Range	Mid	Mid	Mid	Mid	Mid	Low

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Assessment Area: 394
Diversion Id's: 011

Status: **Accepted**

Submit Date: 2003–05–08 14:13:06

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 394

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214669	Veterinary Services, Specialties	742	В
214670	Veterinary Services, Specialties	742	В
214671	Animal Specialty Services	752	В
214672	Meat Packing Plant Manufacturing	2011	В
214692	Auto Truck Repair Service	7538	В
214651	Dairy Farms	241	С
214652	Veterinary Services, Specialties	742	С
214653	Veterinary Services, Specialties	742	С
214654	Veterinary Services, Specialties	742	С
214655	Veterinary Services, Specialties	742	С
214656	Veterinary Services, Specialties	742	С
214535	Animal Specialty Services	752	С
214560	Nonresidential Construction	1542	С
213976	Highway and Street Construction	1611	С
214220	Meat Packing Plant Manufacturing	2011	С
214581	Meat Packing Plant Manufacturing	2011	С
214557	Flour Mill and Other Food Grain Milling	2041	С

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214151	Prepared Feeds For Animals and Fowls	2048	С
213884	Newspapers Publishing and Printing	2711	С
214059	Newspapers Publishing and Printing	2711	С
214550	Newspapers Publishing and Printing	2711	С
213893	Commercial Printing-Lithographic	2752	С
214551	Commercial Printing-Lithographic	2752	С
214646	Nitrogen Fertilizer Manufacturing	2873	С
214595	Plastics products Manufacturing	3089	С
214128	Ready-mix Concrete Plant	3273	С
213819	Farm Machinery and Equipment	3523	С
214564	Farm Machinery and Equipment	3523	С
214695	Farm Machinery and Equipment	3523	С
214675	Lawn and Garden Equipment Manufacturing	3524	С
214287	Construction Machinery Manufacturing	3531	С
214280	Machinery, Except Electrical Manufacturing	3599	С
214685	Machinery, Except Electrical Manufacturing	3599	С
214514	Brooms and Brushes Manufacturing	3991	С
214202	Signs and Advertising Display Manufacturing	3993	С
214650	Farm Product Warehousing and Storage	4221	С

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214218	Refuse Systems	4953	С
214680	Recreational vehicle sales and repair	5012	С
213849	Construction and Mining Machinery	5082	С
214507	Farm and Garden Machinery	5083	С
214553	Farm and Garden Machinery	5083	С
214046	Gasoline Service Station	5541	С
214155	Gasoline Service Station	5541	С
214209	Gasoline Service Station	5541	С
214577	Gasoline Service Station	5541	С
214556	Recreational vehicle sales and repair	5561	С
214522	Mobile Home Park	6515	С
214526	Mobile Home Park	6515	С
214678	Mobile Home Park	6515	С
214681	Mobile Home Park	6515	С
214219	Recreational Vehicle Parks and Campsites	7033	С
214121	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214136	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214142	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214268	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214272	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	С
214174	Auto Truck Repair Service	7538	С
214198	Auto Truck Repair Service	7538	С
214205	Auto Truck Repair Service	7538	С
214255	Auto Truck Repair Service	7538	С
214260	Auto Truck Repair Service	7538	С
214498	Auto Truck Repair Service	7538	С
214512	Auto Truck Repair Service	7538	С
214644	Auto Truck Repair Service	7538	С
214645	Auto Truck Repair Service	7538	С
214689	Auto Truck Repair Service	7538	С
214270	Car Wash	7542	С
214690	Car Wash	7542	С
213678	Repair Services, Nec	7699	С
213894	Repair Services, Nec	7699	С
214214	Repair Services, Nec	7699	С
214508	Repair Services, Nec	7699	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000019	K T Trucking	A-ARFO-T002	В

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000020	Andy's Truck Wash	A-UAFO-T001	В
2002726	Winter Livestock Inc.	A-UAFO-C017	С

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000032	Grain Products	00154	В
3000306	Hy Plains Beef	03796	В
3001110	Kindsvater Inc	16675	В
3001791	Isaac Truck Lines	26921	В
3000133	South Dodge 66	01658	С
3000374	Dodge City Implement	04639	С
3000427	Western Beverage	05221	С
3000567	Stotler Grocery	06405	С
3000646	Love's #62	06730	С
3000739	Southwest Oil Supply	07177	С
3000917	Southwest Oil Supply	09185	С

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000977	Burt's Cycle Center	12328	С
3001010	Steffens Dairy Food	13274	С
3001019	Hitch N Post Truck Stop, Dodge City	13665	С
3001056	Goff Motors	14920	С
3001196	Skaggs Motors	20093	С
3001198	Gas N Go	20168	С
3001234	W W Manufacturing	22507	С
3001316	Safety-kleen	23570	С
3001399	Fina #4792, Dodge City	25065	С
3001400	Fina #9473, Dodge City	25068	С
3001440	Atsf Railway, Dodge City	25294	С
3001493	Dodge City Coop	25590	С
3001546	Presto #27	25842	С
3001588	Dodge City Airport, E Bus Hwy 50 56	26044	С
3001764	Kdot, Dodge City	26744	С
3002040	U-pump-it, Dodge City	28246	С
3002071	Foley Tractor	28385	С
3002137	Sw Bell	28767	С
3002181	Roto-mix	28998	С
3002218	Ford Co, Public Works	29152	С

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000043	BNSF DODGE CITY RAIL YARD	C102970945	С

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000163	Ford County	0175-S	С
5000506	City of Dodge City	0490-S	С
5000640	Ford County HHW Program	0629-S	С
5000693	Gladden Excavating	0671-S	С
5000826	APAC Kansas, IncShears Division	0797-S	С

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000492	GREEN ACRES MOBILE HOME PARK	C-UA11-ND02	С
6000912	KOCH MATERIALS INC.	I-UA11-NP03	С

Assessment Area: 394
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Status: Accepted

Submit Date: 2003-05-08 14:13:06

Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 394

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001295	grove of trees	0	В
9001304	grove of trees	0	В
9001305	rural residence	0	В
9001310	pastureland	10080	В
9001294	cropland	115	В
9001303	cropland	115	В
9001306	cropland	115	В
9001309	cropland	115	В
9001319	cropland	115	В

Assessment Area: 394
Diversion Id's: 011

Status: **Accepted**

Submit Date: 2003-05-08 14:13:06

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 394

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
21	3	66	6	39	14

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Assessment Area: 394
Diversion Id's: 011

Status: Accepted

Submit Date: 2003-05-08 14:13:06

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 394

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
3991	Brooms and Brushes Manufacturing	inorganics, VOCs	В
"	"	"	D
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
3531	Construction Machinery Manufacturing	inorganics, VOCs	В
"	"	"	D
5082	Construction and Mining Machinery	NA	NA
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	A
"	"	"	В
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
1611	Highway and Street Construction	Sedimentation	B2
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В
"	"	"	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B*
2873	Nitrogen Fertilizer Manufacturing	nitrogen	В
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
3089	Plastics products Manufacturing	inorganics, VOCs	В
"	"	"	D
3273	Ready-mix Concrete Plant	Minerals and TSS	В
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B*

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	C*
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	В
"	"	"	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	В
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	В
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	11	В
"	"	11	B1
"	"	"	B2
"	"	"	B*
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
241	Dairy Farms	Sanitary, fertilizers	A
"	"	"	В
"	"	"	B1
"	"	"	B2

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
241	Dairy Farms	Sanitary, fertilizers	B*
3523	Farm Machinery and Equipment	inorganics	В
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	В
"	"	"	D
5083	Farm and Garden Machinery	inorganics	В
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	В
"	"	"	С
"	"	"	D
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	A
"	"	"	В
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
5012	Recreational vehicle sales and repair	Inorganics	В
5561	Recreational vehicle sales and repair	Inorganics	В
4953	Refuse Systems	ALL	A
"	"	"	В

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
4953	Refuse Systems	ALL	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	В

Assessment Area: 394
Diversion Id's: 011

Status: Accepted

Submit Date: 2003-05-08 14:13:06

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 394

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
3991	Brooms and Brushes Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
3531	Construction Machinery Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
5082	Construction and Mining Machinery	NA	Discharge to POTW	NA
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	Wastewater pretreatment and/or discharge to a POTW	40 CFR 122 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2873	Nitrogen Fertilizer Manufacturing	nitrogen	Minimize contact of product with water. Contain and treat process wastewater	40 CFR 418 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
3089	Plastics products Manufacturing	inorganics, VOCs	Pre-treat wastewater prior to discharge. Minimize outdoor storage and control storm water runoff.	40 CFR 463 and State or federal Storm water pollution prevention regulations
3273	Ready–mix Concrete Plant	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	Discharge to POTW. Minimize use of lawn chemicals	NA
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
241	Dairy Farms	Sanitary, fertilizers	Collect and treat process wastes. Use good erosion control practices. Minimize storm water contact with contaminants.	40 CFR 405
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	Maintain animal feeding areas and feed storage areas to minimize contact with storm water. Collect and treat process wastes.	40 CFR 412 and State or federal Storm water pollution prevention regulations
5012	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	NA
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

Assessment Area: 394
Diversion Id's: 011

Status: Accepted

Submit Date: 2003-05-08 14:13:06

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 394

Ground Water Single Well Analysis

 ${\bf A}$ – Microbiolgical ${\bf B}$ – Inorganic Compounds

B* – Nitrates
 C – Synthetic Organic Compounds
 C* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	B *	C	C *	D
1	Is the well under the influence of surface water?	No	0	0	0	0	0	0
2	Does the well meet KS water well construction standards?	Yes	0	0	0	0	0	0
3	Is the depth of the well less than 30 feet?	No	0	0	0	0	0	0
4	Are there unplugged, abandoned water wells present in Zone A?	No	0	0	0	0	0	0
5	Is there gravel pack within 20 feet of the surface?	Yes	1	1	1	1	1	1
6	Does a PWS own or control Zone A?	Yes	0	0	0	0	0	0
7	Does Zone A consist entirely of native grass?	No	1	1	1	1	1	1
8	Is there a contaminated well in the Zone A?	No	0	0	0	0	0	0
9	Is a class V UIC well present?	Yes	1	1	1	1	1	1
10	Are any commercial, industrial, or urban areas present in Zone B?	Yes	1	1	1	1	1	1
11	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
12	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
13	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
14	Are any farmsteads present in Zone B?	No	0	0	0	0	0	0
15	Do all farmsteads have a water quality protection plan?	Yes	0	0	0	0	0	0
16	Does Zone B consist entirely of native grass?	No	1	1	1	1	1	1
17	Is there grazing livestock in Zone B?	Yes	1	0	1	0	0	0

No.	Question	Response	A	В	B *	C	C *	D
18	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
19	Is there livestock confinement in Zone B?	Yes	1	1	1	0	1	0
20	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
21	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
22	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
23	Are any orchards present in Zone B?	No	0	0	0	0	0	0
24	Are orchard nutrient and pesticide plans in use for each site?	Yes	0	0	0	0	0	0
25	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	Yes	1	1	1	0	0	0
26	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
27	Is there oil production in Zone B or C?	No	0	0	0	0	0	0
28	Do coarse textured soils predominate Zones A, B and C?	No	0	0	0	0	0	0
29	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
30	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
31	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
32	Are there unplugged, abandoned water wells present in Zone B or C?	Yes	1	0	0	0	0	0
33	Are any commercial, industrial, or urban areas present in Zone C?	Yes	1	1	1	1	1	1
34	Are water quality protection plans in use for each site/area?	No	1	1	1	1	1	1
35	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
36	Is each confined livestock facility registered with KDHE?		0	0	0	0	0	0
37	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
38	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
39	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
40	Does a perennial stream flow into Zone C?	No	0	0	0	0	0	0
41	Are watershed water quality protection plans in place?	Yes	0	0	0	0	0	0

Assessment Area: 394
Diversion Id's: 011

Status: **Accepted**

Submit Date: 2003-05-08 14:13:06

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 394

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Andy's Truck Wash	2000020	This truckwash has groundwater monitoring.	Nicole Fisher
K T Trucking	2000019	This truckwash has no groundwater monitoring.	Nicole Fisher
Winter Livestock Inc.	2002726	This cattle livestock facility has no water quality protection plans.	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Hy Plains Beef	1 3111113116	ε	Nicole Fisher

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Kindsvater Inc	3001110	The site is closed from a waste oil spill in 1990. No groundwater contamination was suspected.	Nicole Fisher
Roto-mix	3002181	The site is currently being monitored from a 1989 gasoline spill. There are two public water wells within .25 miles downgradient of the spill. For information contact Aaron Norris (785) 296–8987	Nicole Fisher
W W Manufacturing	3001234	The site is closed from a gasoline spill in 1989. No groundwater contamination was suspected.	Nicole Fisher

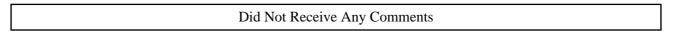
Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
BNSF DODGE CITY RAIL YARD	7000043	Inetroleum hydrocarbon impacts to the local	Nicole Fisher

Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Ford County HHW Program	i atililinati	8	Nicole Fisher

Comments for Regulated Waste Water Sites



Assessment Area: 394
Diversion Id's: 011

Status: Accepted

Submit Date: 2003-05-08 14:13:06

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 394

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
cropland	9001294	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001303	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001306	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001309	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001319	This site could contaminate the public water supply.	Nicole Fisher
grove of trees	9001295	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher
grove of trees	9001304	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher
pastureland	9001310	This site could contaminate the public water supply.	Nicole Fisher
rural residence	9001305	This site could contaminate the public water supply.	Nicole Fisher

Assessment Area: 394
Diversion Id's: 011

Status: Accepted

Submit Date: 2003-05-08 14:13:06

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 394

Comments for Analysis Questions

Analy	ysis Question	Question Comments	Author
	Did N	Not Receive Any Comments	

Assessment Area: 2025
Diversion Id's: 020

Status: Accepted

Submit Date: 2003–05–08 14:16:28

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 2025

Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	В	B*	С	C*	D
Susceptibility Likelihood Score – SLS	16	25	27	24	27	26
SLS Range	Low	Low	Low	Low	Low	Low

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Susceptibility Likelihood Range

SLS Range	
0-50	Low Susceptibility
51-80	Moderate Susceptibility
81–100	High Susceptibility

Assessment Area: 2025
Diversion Id's: 020

Status: Accepted

Submit Date: 2003–05–08 14:16:28

Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100–foot radius around a groundwater well and a 1000–foot radius around a surface water intake. Zone B is a 2000–foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2–mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 2025

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
213569	Single–family Housing Construction	1521	С
213633	Single–family Housing Construction	1521	С
213721	Single–family Housing Construction	1521	С
213723	Single–family Housing Construction	1521	С
213728	Single–family Housing Construction	1521	С
213756	Single–family Housing Construction	1521	С
214474	Single–family Housing Construction	1521	С
214495	Single–family Housing Construction	1521	С
214600	Single–family Housing Construction	1521	С
213718	Machinery, Except Electrical Manufacturing	3599	С
213766	Surgical Appliances and Supplies Manufacturing	3842	С
213591	Signs and Advertising Display Manufacturing	3993	С
213689	Signs and Advertising Display Manufacturing 3993		С
213708	Signs and Advertising Display Manufacturing	3993	С

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
213565	Local Trucking, without Storage	4212	С
214585	Farm and Garden Machinery	5083	С
213690	Gasoline Service Station	5541	С
213618	Auto Truck Repair Service	7538	С
213753	Car Wash	7542	С
213730	Repair Services, Nec	7699	С
214633	Repair Services, Nec	7699	С
214486	Golf Course	7992	С

Regulated Confined Animal Feeding Operations Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000135	Turn A Round	01665	С

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000355	Gladden Excavating	04346	С
3000499	Usd 443, Avts	06013	С
3000511	Western Plains Regional Hosp	06161	С
3000890	Mariah Hills Golf	09036	С
3001449	AtDodge City	25370	С
3001569	Victory Electric Coop	25951	С
3002026	Spee D Shop	28166	С
3002339	Great Western Tire	29723	С

Regulated Identified Contaminated Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Solid Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Waste Water Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Assessment Area: 2025
Diversion Id's: 020

Status: Accepted

Submit Date: 2003-05-08 14:16:28

Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 2025

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
Did Not Add Any Site Sources			

Assessment Area: 2025
Diversion Id's: 020

Status: Accepted

Submit Date: 2003-05-08 14:16:28

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 2025

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
10	1	11	9	9	10

A – Microbiolgical

B* – Nitrates

C* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

Assessment Area: 2025
Diversion Id's: 020

Status: Accepted

Submit Date: 2003-05-08 14:16:28

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A – Microbiolgical B – Inorganic Compounds
 B2 – Sedimentation B* – Nitrates
 B1 – Eutrophication – Phosphorous
 C – Synthetic Organic Compounds

C* – Pesticides **D** – Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 2025

Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	В
"	"	"	D
7542	Car Wash	Inorganics, VOCs	В
"	"	"	B1
"	"	"	B2
"	"	"	D
5541	Gasoline Service Station	Inorganics, VOCs	В
"	"	"	D
7992	Golf Course	Fertilizers and pesticides	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
4212	Local Trucking, without Storage	VOCs	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	В
"	"	"	D
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	В

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	D
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	С
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	В
"	"	II .	D
5083	Farm and Garden Machinery	inorganics	В
7699	Repair Services, Nec	inorganics	В

Assessment Area: 2025
Diversion Id's: 020

Status: Accepted

Submit Date: 2003–05–08 14:16:28

Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 2025

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
7992	Golf Course	Fertilizers and pesticides	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals.	KDHE, KAR 28–16
4212	Local Trucking, without Storage	VOCs	Discharge to a POTW	State or federal Storm water pollution prevention regulations
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations
1521	Single–family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28–48, KDHE, KDEM
3842	Surgical Appliances and Supplies Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

Assessment Area: 2025
Diversion Id's: 020

Status: Accepted

Submit Date: 2003-05-08 14:16:28

Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: DODGE CITY, CITY OF

Assessment Area: 2025

Ground Water Single Well Analysis

A – Microbiolgical B – Inorganic Compounds

B* – Nitrates
 C – Synthetic Organic Compounds
 C* – Pesticides
 D – Volatile Organic Compounds

No.	Question	Response	A	В	B *	C	C *	D
1	Is the well under the influence of surface water?			0	0	0	0	0
2	Does the well meet KS water well construction standards?			0	0	0	0	0
3	Is the depth of the well less than 30 feet?			0	0	0	0	0
4	Are there unplugged, abandoned water wells present in Zone A?			0	0	0	0	0
5	Is there gravel pack within 20 feet of the surface?			0	0	0	0	0
6	Does a PWS own or control Zone A?		1	1	1	1	1	1
7	Does Zone A consist entirely of native grass?		1	1	1	1	1	1
8	Is there a contaminated well in the Zone A?		0	0	0	0	0	0
9	Is a class V UIC well present?		0	0	0	0	0	0
10	Are any commercial, industrial, or urban areas present in Zone B?		0	0	0	0	0	0
11	Does each industrial/commercial site and urban area have a water quality protection plan in place?		0	0	0	0	0	0
12	Are any non-farm home sites present in Zone B?		0	0	0	0	0	0
13	Do all the non-farm home sites have a water quality protection plan?		0	0	0	0	0	0
14	Are any farmsteads present in Zone B?		0	0	0	0	0	0
15	Do all farmsteads have a water quality protection plan?		0	0	0	0	0	0
16	Does Zone B consist entirely of native grass?	No	1	1	1	1	1	1
17	Is there grazing livestock in Zone B?	No	0	0	0	0	0	0

No.	Question	Response	A	В	B *	C	C *	D
18	Do all the livestock producers have water quality protection measures in place?		0	0	0	0	0	0
19	Is there livestock confinement in Zone B?			0	0	0	0	0
20	Is each confined animal feeding operation registered with KDHE?			0	0	0	0	0
21	Is there corn or grain sorghum production in Zone B?			0	1	0	1	0
22	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?		0	0	1	0	1	0
23	Are any orchards present in Zone B?		0	0	0	0	0	0
24	Are orchard nutrient and pesticide plans in use for each site?		0	0	0	0	0	0
25	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	Yes	1	1	1	0	0	0
26	Is there a railroad or major highway in Zone B or C?		0	1	1	1	1	1
27	Is there oil production in Zone B or C?		0	0	0	0	0	0
28	Do coarse textured soils predominate Zones A, B and C?		0	0	0	0	0	0
29	Is an irrigation well located in Zone B or C?		0	1	1	1	1	1
30	Is a wastewater treatment facility in Zone B or C?		0	0	0	0	0	0
31	Is a solid waste landfill in Zone B or C?		0	0	0	0	0	0
32	Are there unplugged, abandoned water wells present in Zone B or C?		0	0	0	0	0	0
33	Are any commercial, industrial, or urban areas present in Zone C?		1	1	1	1	1	1
34	Are water quality protection plans in use for each site/area?		0	0	0	0	0	0
35	Is there livestock confinement in Zone C?		0	0	0	0	0	0
36	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
37	Do all the livestock producers have water quality protection measures in place?		0	0	0	0	0	0
38	Are cropland nutrient management plans in place?		0	0	1	0	0	0
39	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
40	Does a perennial stream flow into Zone C?	No	0	0	0	0	0	0
41	Are watershed water quality protection plans in place?	Yes	0	0	0	0	0	0

Assessment Area: 2025
Diversion Id's: 020

Status: **Accepted**

Submit Date: 2003–05–08 14:16:28

Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

	Did Not Receive Any Comments
Comments for R	egulated Confined Animal Feeding Operations Sites
	Did Not Receive Any Comments
comments for R	egulated Hazardous Waste Sites
	Did Not Receive Any Comments
	Did Not Receive Any Comments
Comments for R	egulated Leaking Storage Tank Sites Did Not Receive Any Comments
	egulated Leaking Storage Tank Sites Did Not Receive Any Comments egulated Identified Contaminated Sites
	egulated Leaking Storage Tank Sites Did Not Receive Any Comments
Comments for R	egulated Leaking Storage Tank Sites Did Not Receive Any Comments egulated Identified Contaminated Sites

Comments for Regulated Waste Water Sites

Did Not Receive Any Comments

Assessment Area: 2025
Diversion Id's: 020

Status: **Accepted**

Submit Date: 2003-05-08 14:16:28

Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 2025

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author				
Did Not Receive Any Comments							

Assessment Area: 2025
Diversion Id's: 020

Status: **Accepted**

Submit Date: 2003-05-08 14:16:28

Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **DODGE CITY, CITY OF**

Assessment Area: 2025

Comments for Analysis Questions

Analysis Question	Question Comments	Author				
Did Not Receive Any Comments						